

# Sequence Listing

<110> Ashkenazi, Avi J.  
Baker, Kevin  
Gurney, Austin  
Wood, William

<120> Apo-2DcR

<130> P1110

<140> US 08/878,168

<141> 1997-06-18

<160> 17

<210> 1

<211> 259

<212> PRT

<213> Homo sapiens

<400> 1

Met	Ala	Arg	Ile	Pro	Lys	Thr	Leu	Lys	Phe	Val	Val	Val	Ile	Val
1				5					10					15

Ala	Val	Leu	Leu	Pro	Val	Leu	Ala	Tyr	Ser	Ala	Thr	Thr	Ala	Arg
				20					25					30

Gln	Glu	Glu	Val	Pro	Gln	Gln	Thr	Val	Ala	Pro	Gln	Gln	Gln	Arg
				35					40					45

His	Ser	Phe	Lys	Gly	Glu	Glu	Cys	Pro	Ala	Gly	Ser	His	Arg	Ser
				50					55					60

Glu	His	Thr	Gly	Ala	Cys	Asn	Pro	Cys	Thr	Glu	Gly	Val	Asp	Tyr
				65					70					75

Thr	Asn	Ala	Ser	Asn	Asn	Glu	Pro	Ser	Cys	Phe	Pro	Cys	Thr	Val
				80					85					90

Cys	Lys	Ser	Asp	Gln	Lys	His	Lys	Ser	Ser	Cys	Thr	Met	Thr	Arg
				95					100					105

Asp	Thr	Val	Cys	Gln	Cys	Lys	Glu	Gly	Thr	Phe	Arg	Asn	Glu	Asn
				110					115					120

Ser	Pro	Glu	Met	Cys	Arg	Lys	Cys	Ser	Arg	Cys	Pro	Ser	Gly	Glu
				125					130					135

Val	Gln	Val	Ser	Asn	Cys	Thr	Ser	Trp	Asp	Asp	Ile	Gln	Cys	Val
				140					145					150

Revised

Glu Glu Phe Gly Ala Asn Ala Thr Val Glu Thr Pro Ala Ala Glu  
155 160 165

Glu Thr Met Asn Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu  
170 175 180

Glu Thr Met Asn Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu  
185 190 195

Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu  
200 205 210

Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu  
215 220 225

Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Ser Ser His Tyr  
230 235 240

Leu Ser Cys Thr Ile Val Gly Ile Ile Val Leu Ile Val Leu Leu  
245 250 255

Ile Val Phe Val  
259

<210> 2  
<211> 1180  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (193) . . . (969)  
<223>

<400> 2  
gctgtgggaa cctctccacg cgcaacgaact cagccaacga tttctgatag 50  
atttttgga gtttgaccag agatgcaagg ggtgaaggag cgcttcctac 100  
cgtagggaa ctctggggac agagcgcccc ggccgcctga tggccgaggc 150  
agggtgcgac ccaggacca ggacggcgtc gggaaccata cc atg 195  
Met  
1

gcc cgg atc ccc aag acc cta aag ttc gtc gtc gtc atc 234  
Ala Arg Ile Pro Lys Thr Leu Lys Phe Val Val Val Ile  
5 10

gtc gcg gtc ctg ctg cca gtc cta gct tac tct gcc acc 273

Dubay

Val Ala Val Leu Leu Pro Val Leu Ala Tyr Ser Ala Thr  
15 20 25

act gcc cgg cag gag gaa gtt ccc cag cag aca gtg gcc 312  
Thr Ala Arg Gln Glu Glu Val Pro Gln Gln Thr Val Ala  
30 35 40

cca cag caa cag agg cac agc ttc aag ggg gag gag tgt 351  
Pro Gln Gln Gln Arg His Ser Phe Lys Gly Glu Glu Cys  
45 50

cca gca gga tct cat aga tca gaa cat act gga gcc tgt 390  
Pro Ala Gly Ser His Arg Ser Glu His Thr Gly Ala Cys  
55 60 65

aac ccg tgc aca gag ggt gtg gat tac acc aac gct tcc 429  
Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Asn Ala Ser  
70 75

aac aat gaa cct tct tgc ttc cca tgt aca gtt tgt aaa 468  
Asn Asn Glu Pro Ser Cys Phe Pro Cys Thr Val Cys Lys  
80 85 90

tca gat caa aaa cat aaa agt tcc tgc acc atg acc aga 507  
Ser Asp Gln Lys His Lys Ser Ser Cys Thr Met Thr Arg  
95 100 105

gac aca gtg tgt cag tgt aaa gaa ggc acc ttc cgg aat 546  
Asp Thr Val Cys Gln Cys Lys Glu Gly Thr Phe Arg Asn  
110 115

gaa aac tcc cca gag atg tgc cgg aag tgt agc agg tgc 585  
Glu Asn Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys  
120 125 130

cct agt ggg gaa gtc caa gtc agt aat tgt acg tcc tgg 624  
Pro Ser Gly Glu Val Gln Val Ser Asn Cys Thr Ser Trp  
135 140

gat gat atc cag tgt gtt gaa gaa ttt ggt gcc aat gcc 663  
Asp Asp Ile Gln Cys Val Glu Glu Phe Gly Ala Asn Ala  
145 150 155

act gtg gaa acc cca gct gct gaa gag aca atg aac acc 702  
Thr Val Glu Thr Pro Ala Ala Glu Glu Thr Met Asn Thr  
160 165 170

agc ccg ggg act cct gcc cca gct gct gaa gag aca atg 741  
Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met  
175 180

Sub-G1

aac acc agc cca ggg act cct gcc cca gct gct gaa gag 780  
Asn Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu  
185 190 195

aca atg acc acc agc ccg ggg act cct gcc cca gct gct 819  
Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala  
200 205

gaa gag aca atg acc acc agc ccg ggg act cct gcc cca 858  
Glu Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro  
210 215 220

gct gct gaa gag aca atg acc acc agc ccg ggg act cct 897  
Ala Ala Glu Glu Thr Met Thr Thr Ser Pro Gly Thr Pro  
225 230 235

gcc tct tct cat tac ctc tca tgc acc atc gta ggg atc 936  
Ala Ser Ser His Tyr Leu Ser Cys Thr Ile Val Gly Ile  
240 245

ata gtt cta att gtg ctt ctg att gtg ttt gtt t 970  
Ile Val Leu Ile Val Leu Leu Ile Val Phe Val  
250 255 259

gaaagacttc actgtggaag aaattccttc cttacctgaa aggttcaggt 1020

aggcgctggc tgagggcggg gggcgctgga cactctctgc cctgcctccc 1070

tctgctgtgt tcccacagac agaaacgcct gccctgccc caaaaaaaaa 1120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1170

aaaaaaaaaa 1180

<210> 3  
<211> 299  
<212> PRT  
<213> Homo sapiens

<400> 3  
Met Gln Gly Val Lys Glu Arg Phe Leu Pro Leu Gly Asn Ser Gly  
1 5 10 15

Asp Arg Ala Pro Arg Pro Pro Asp Gly Arg Gly Arg Val Arg Pro  
20 25 30

Arg Thr Gln Asp Gly Val Gly Asn His Thr Met Ala Arg Ile Pro  
35 40 45

Lys Thr Leu Lys Phe Val Val Val Ile Val Ala Val Leu Leu Pro  
50 55 60

2061

Val Leu Ala Tyr Ser Ala Thr Thr Ala Arg Gln Glu Glu Val Pro  
65 70 75

Gln Gln Thr Val Ala Pro Gln Gln Gln Arg His Ser Phe Lys Gly  
80 85 90

Glu Glu Cys Pro Ala Gly Ser His Arg Ser Glu His Thr Gly Ala  
95 100 105

Cys Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Asn Ala Ser Asn  
110 115 120

Asn Glu Pro Ser Cys Phe Pro Cys Thr Val Cys Lys Ser Asp Gln  
125 130 135

Lys His Lys Ser Ser Cys Thr Met Thr Arg Asp Thr Val Cys Gln  
140 145 150

Cys Lys Glu Gly Thr Phe Arg Asn Glu Asn Ser Pro Glu Met Cys  
155 160 165

Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val Gln Val Ser Asn  
170 175 180

Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu Phe Gly Ala  
185 190 195

Asn Ala Thr Val Glu Thr Pro Ala Ala Glu Glu Thr Met Asn Thr  
200 205 210

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Asn Thr  
215 220 225

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr  
230 235 240

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr  
245 250 255

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr  
260 265 270

Ser Pro Gly Thr Pro Ala Ser Ser His Tyr Leu Ser Cys Thr Ile  
275 280 285

Val Gly Ile Ile Val Leu Ile Val Leu Leu Ile Val Phe Val  
290 295 299

<210> 4  
<211> 1180

[illegible]

```
<220>
<221> sig_peptide
<222> (73) . . . (194)
<223>
```

atgttttggga gtttgaccag ag      atg caa ggg gtg aag gag 90  
Met Gln Gly Val Lys Glu  
-40                          -35

cgc ttc cta ccg tta ggg aac tct ggg gac aga gcg ccc 129  
 Arg Phe Leu Pro Leu Gly Asn Ser Gly Asp Arg Ala Pro  
 -30 -25

cgg ccg cct gat ggc cga ggc agg gtg cga ccc agg acc 168  
 Arg Pro Pro Asp Gly Arg Gly Arg Val Arg Pro Arg Thr  
 -20 -15 -10

cag gac ggc gtc ggg aac cat acc atg gcc cgg atc ccc 207  
Gln Asp Gly Val Gly Asn His Thr Met Ala Arg Ile Pro  
-5 1 5

aag acc cta aag ttc gtc gtc gtc atc gtc gcg gtc ctg 246  
Lys Thr Leu Lys Phe Val Val Val Ile Val Ala Val Leu  
10 15

ctg cca gtc cta gct tac tct gcc acc act gcc cgg cag 285  
Leu Pro Val Leu Ala Tyr Ser Ala Thr Thr Ala Arg Gln  
20 25 30

gag gaa gtt ccc cag cag aca gtg gcc cca cag caa cag 324  
Glu Glu Val Pro Gln Gln Thr Val Ala Pro Gln Gln Gln  
35 40

agg cac agc ttc aag ggg gag gag tgt cca gca gga tct 363  
Arg His Ser Phe Lys Gly Glu Glu Cys Pro Ala Gly Ser  
45 50 55

cat aga tca gaa cat act gga gcc tgt aac ccg tgc aca 402  
His Arg Ser Glu His Thr Gly Ala Cys Asn Pro Cys Thr  
60 65 70

[illegible]

aca atg acc acc agc ccg ggg act cct gcc tct tct cat 909  
Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Ser Ser His

235





2nd cut

0992964-11901

gggacagaac gccccggccg cttcgggggc ccggaaaagg cacggcccag 200  
gacccaggga ggcgcgggga gccaggcctg ggctccgggt cccaagacc 250  
cttgtgctcg ttgtcgccgc ggtcctgctg ttgggtctcag ctgagtctgc 300  
tctgatcacc caacaagacc tagctcccca gcagagagcg gccccacaac 350  
aaaagaggtc cagccccctc gagggattgt gtccacctgg acaccatata 400  
tcagaagacg gtagagattg catctcctgc aaatatggac aggactatag 450  
cactcactgg aatgacctcc tttcttgett gcgctgcacc aggtgtgatt 500  
caggtgaagt ggagctaagt cctgtcacca cgaccagaaa cacagtgtgt 550  
cagtgcgaag aaggcacctt ccgggaagaa gattctcctg agatgtgccg 600  
gaagtgccgc acaggggtgt ccagagggat ggtcaagggt ggtgattgta 650  
caccctggag tgacatcgaa tgtgtccaca aagaatcagg catcatcata 700  
ggagtcacag ttgcagccgt agtcttgatt gtggctgtgt ttgtttgcaa 750  
gtctttactg tggaagaaaag tccttcctta cctgaaaagg atctgctcag 800  
gtgggtgggg ggaccctgag cgtgtggaca gaagctcaca acgacctggg 850  
gctgaggaca atgtcctcaa tgagatcgtg agtatcttgc agcccacca 900  
ggtccttgag caggaaatgg aagtccagga gccagcagag ccaacagggt 950  
tcaacatgtt gtcccccggt gagtcagagc atctgctgga accggcagaa 1000  
gctgaaaggt ctcagaggag gaggtgctg gttccagcaa atgaaggtag 1050  
tcccactgag actctgagac agtgcttcca tgactttgca gacttgggtc 1100  
cctttgactc ctgggagccg ctcatgagga agttgggcct catggacaat 1150  
gagataaagg tggctaaagc tgaggcagcg ggccacaggg acaccttgta 1200  
cacgatgctg ataaagtggg tcaacaaaac cgggcgagat gcctctgtcc 1250  
acacctgct ggatgccttg gagacgctgg gagagagact tgccaagcag 1300  
aagattgagg accacttggt gagctctgga aagttcatgt atctagaagg 1350  
taatgcagac tctgccwtgt cctaagtgtg attctcttca ggaagtgaga 1400  
ccttcctggt tttacctttt ttctggaaaa agcccaactg gactccagtc 1450

DNA

agtaggaaag tgccacaatt gtcacatgac cggtagtgga agaaaactctc 1500  
ccatccaaca tcacccagtg gatggaacat cctgtaactt ttcactgcac 1550  
ttggcattat ttttataagc tgaatgtgat aataaggaca ctatggaaat 1600  
gtctggatca ttccgtttgt gcgtactttg agatttggtt tgggatgtca 1650  
ttgttttcac agcacttttt taccctaagt taaatgcttt atttatttat 1700  
ttgggctaca ttgtaagatc catctacaaa aaaaaaaaaa aaaaaaaaaag 1750  
ggcggccgcg actctagagt cgacctgcag aagcttggcc gccatggcc 1799

<210> 11  
<211> 411  
<212> PRT  
<213> Homo sapiens

<220>  
<221> Unsure  
<222> 410  
<223> Xaa may be leucine or methionine

<400> 11  
Met Glu Gln Arg Gly Gln Asn Ala Pro Ala Ala Ser Gly Ala Arg  
1 5 10 15  
Lys Arg His Gly Pro Gly Pro Arg Glu Ala Arg Gly Ala Arg Pro  
20 25 30  
Gly Leu Arg Val Pro Lys Thr Leu Val Leu Val Val Ala Ala Val  
35 40 45  
Leu Leu Leu Val Ser Ala Glu Ser Ala Leu Ile Thr Gln Gln Asp  
50 55 60  
Leu Ala Pro Gln Gln Arg Ala Ala Pro Gln Gln Lys Arg Ser Ser  
65 70 75  
Pro Ser Glu Gly Leu Cys Pro Pro Gly His His Ile Ser Glu Asp  
80 85 90  
Gly Arg Asp Cys Ile Ser Cys Lys Tyr Gly Gln Asp Tyr Ser Thr  
95 100 105  
His Trp Asn Asp Leu Leu Phe Cys Leu Arg Cys Thr Arg Cys Asp  
110 115 120  
Ser Gly Glu Val Glu Leu Ser Pro Cys Thr Thr Thr Arg Asn Thr

00992964-11901

*Duray*

				125						130					135
Val	Cys	Gln	Cys	Glu	Glu	Gly	Thr	Phe	Arg	Glu	Glu	Asp	Ser	Pro	
				140					145					150	
Glu	Met	Cys	Arg	Lys	Cys	Arg	Thr	Gly	Cys	Pro	Arg	Gly	Met	Val	
				155					160					165	
Lys	Val	Gly	Asp	Cys	Thr	Pro	Trp	Ser	Asp	Ile	Glu	Cys	Val	His	
				170					175					180	
Lys	Glu	Ser	Gly	Ile	Ile	Ile	Gly	Val	Thr	Val	Ala	Ala	Val	Val	
				185					190					195	
Leu	Ile	Val	Ala	Val	Phe	Val	Cys	Lys	Ser	Leu	Leu	Trp	Lys	Lys	
				200					205					210	
Val	Leu	Pro	Tyr	Leu	Lys	Gly	Ile	Cys	Ser	Gly	Gly	Gly	Gly	Asp	
				215					220					225	
Pro	Glu	Arg	Val	Asp	Arg	Ser	Ser	Gln	Arg	Pro	Gly	Ala	Glu	Asp	
				230					235					240	
Asn	Val	Leu	Asn	Glu	Ile	Val	Ser	Ile	Leu	Gln	Pro	Thr	Gln	Val	
				245					250					255	
Pro	Glu	Gln	Glu	Met	Glu	Val	Gln	Glu	Pro	Ala	Glu	Pro	Thr	Gly	
				260					265					270	
Val	Asn	Met	Leu	Ser	Pro	Gly	Glu	Ser	Glu	His	Leu	Leu	Glu	Pro	
				275					280					285	
Ala	Glu	Ala	Glu	Arg	Ser	Gln	Arg	Arg	Arg	Leu	Leu	Val	Pro	Ala	
				290					295					300	
Asn	Glu	Gly	Asp	Pro	Thr	Glu	Thr	Leu	Arg	Gln	Cys	Phe	Asp	Asp	
				305					310					315	
Phe	Ala	Asp	Leu	Val	Pro	Phe	Asp	Ser	Trp	Glu	Pro	Leu	Met	Arg	
				320					325					330	
Lys	Leu	Gly	Leu	Met	Asp	Asn	Glu	Ile	Lys	Val	Ala	Lys	Ala	Glu	
				335					340					345	
Ala	Ala	Gly	His	Arg	Asp	Thr	Leu	Tyr	Thr	Met	Leu	Ile	Lys	Trp	
				350					355					360	
Val	Asn	Lys	Thr	Gly	Arg	Asp	Ala	Ser	Val	His	Thr	Leu	Leu	Asp	
				365					370					375	
Ala	Leu	Glu	Thr	Leu	Gly	Glu	Arg	Leu	Ala	Lys	Gln	Lys	Ile	Glu	

**000000-1690**

Page 13

Put away

Asn	Ala	Ser	Asn	Asn	Leu	Phe	Ala	Cys	Leu	Pro	Cys	Thr	Ala	Cys	
				110					115					120	
Lys	Ser	Asp	Glu	Glu	Glu	Arg	Ser	Pro	Cys	Thr	Thr	Thr	Arg	Asn	
				125					130					135	
Thr	Ala	Cys	Gln	Cys	Lys	Pro	Gly	Thr	Phe	Arg	Asn	Asp	Asn	Ser	
				140					145					150	
Ala	Glu	Met	Cys	Arg	Lys	Cys	Ser	Thr	Gly	Cys	Pro	Arg	Gly	Met	
				155					160					165	
Val	Lys	Val	Lys	Asp	Cys	Thr	Pro	Trp	Ser	Asp	Ile	Glu	Cys	Val	
				170					175					180	
His	Lys	Glu	Ser	Gly	Asn	Gly	His	Asn	Ile	Trp	Val	Ile	Leu	Val	
				185					190					195	
Val	Thr	Leu	Val	Val	Pro	Leu	Leu	Leu	Val	Ala	Val	Leu	Ile	Val	
				200					205					210	
Cys	Cys	Cys	Ile	Gly	Ser	Gly	Cys	Gly	Gly	Asp	Pro	Lys	Cys	Met	
				215					220					225	
Asp	Arg	Val	Cys	Phe	Trp	Arg	Leu	Gly	Leu	Leu	Arg	Gly	Pro	Gly	
				230					235					240	
Ala	Glu	Asp	Asn	Ala	His	Asn	Glu	Ile	Leu	Ser	Asn	Ala	Asp	Ser	
				245					250					255	
Leu	Ser	Thr	Phe	Val	Ser	Glu	Gln	Gln	Met	Glu	Ser	Gln	Glu	Pro	
				260					265					270	
Ala	Asp	Leu	Thr	Gly	Val	Thr	Val	Gln	Ser	Pro	Gly	Glu	Ala	Gln	
				275					280					285	
Cys	Leu	Leu	Gly	Pro	Ala	Glu	Ala	Glu	Gly	Ser	Gln	Arg	Arg	Arg	
				290					295					300	
Leu	Leu	Val	Pro	Ala	Asn	Gly	Ala	Asp	Pro	Thr	Glu	Thr	Leu	Met	
				305					310					315	
Leu	Phe	Phe	Asp	Lys	Phe	Ala	Asn	Ile	Val	Pro	Phe	Asp	Ser	Trp	
				320					325					330	
Asp	Gln	Leu	Met	Arg	Gln	Leu	Asp	Leu	Thr	Lys	Asn	Glu	Ile	Asp	
				335					340					345	
Val	Val	Arg	Ala	Gly	Thr	Ala	Gly	Pro	Gly	Asp	Ala	Leu	Tyr	Ala	
				350					355					360	

Met Leu Met Lys Trp Val Asn Lys Thr Gly Arg Asn Ala Ser Ile  
365 370 375

His Thr Leu Leu Asp Ala Leu Glu Arg Met Glu Glu Arg His Ala  
380 385 390

Lys Glu ~~Lys~~ Ile Gln Asp Leu Leu Val Asp Ser Gly Lys Phe Ile  
395 400 405

Tyr Leu Glu Asp Gly Thr Gly Ser Ala Val Ser Leu Glu  
410 415 418

<210> 15

<211> 74

<212> PRT

<213> Homo sapiens

<400> 15

Val Met Asp Ala Val Pro ~~Ala~~ Arg Arg Trp Lys Glu Phe Val Arg  
1 5 10 15

Thr Leu Gly Leu Arg Glu Ala ~~Glu~~ Ile Glu Ala Val Glu Val Glu  
20 25 30

Ile Gly Arg Phe Arg Asp Gln Gln Tyr Glu Met Leu Lys Arg Trp  
35 40 45

Arg Gln Gln Gln Pro Ala Gly Leu Gly Ala Val Tyr Ala Ala Leu  
50 55 60

Glu Arg Met Gly Leu Asp Gly Cys Val Glu Asp Leu Arg Ser  
65 70 74

<210> 16

<211> 78

<212> PRT

<213> Homo sapiens

<400> 16

Val Val Glu Asn Val Pro Pro Leu Arg Trp Lys Glu Phe Val Arg  
1 5 10 15

Arg Leu Gly Leu Ser Asp His Glu Ile Asp Arg Leu Glu Leu Gln  
20 25 30

Asn Gly Arg Cys Leu Arg Glu Ala Gln Tyr Ser Met Leu Ala Thr  
35 40 45

Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala Thr Leu Glu Leu Leu  
50 55 60

DeWalt

Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly Cys Leu Glu Asp  
65 70 75

Ile Glu Glu  
78

<210> 17

<211> 77

<212> PRT

<213> Homo sapiens

<400> 17

Ile Ala Gly Val His Thr Leu Ser Gln Val Lys Gly Phe Val Arg  
1 5 10 15

Lys Asn Gly Val Asn Glu Ala Lys Ile Asp Glu Ile Lys Asn Asp  
20 25 30

Asn Val Gln Asp Thr Ala Glu Gln Lys Val Gln Leu Leu Arg Asn  
35 40 45

Trp His Gln Leu His Gly Lys Lys Glu Ala Tyr Asp Thr Leu Ile  
50 55 60

Lys Asp Leu Lys Lys Ala Asn Leu Cys Thr Leu Ala Glu Lys Ile  
65 70 75

Gln Thr  
77